KENWOOD

KGC-9042

GRAPHIC EQUALIZER
INSTRUCTION MANUAL

EGALISEUR GRAPHIQUE
MODE D,EMPLOI

GRAPHIC EQUALIZER
BEDIENUNGSANLEITUNG

GRAFISCHE TOONREGELING
GEBRUIKSAANWIJZING

EQUALIZZATORE GRAFICO
ISTRUZIONI PER L'USO

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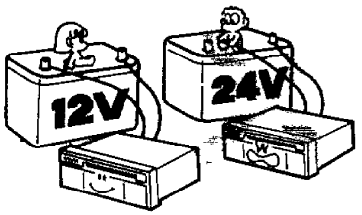
90/12 11

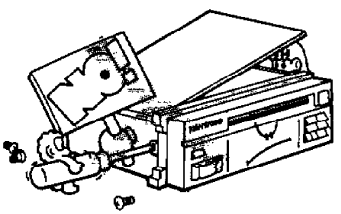
⚠ WARNING

TO PREVENT ELECTRIC SHOCK, FIRE AND OTHER INJURY. PLEASE NOTE THE FOLLOWINGS:

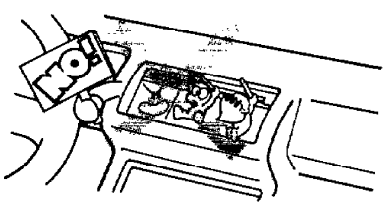
- The unit is designed to be connected 12 V DC and negative grounding.



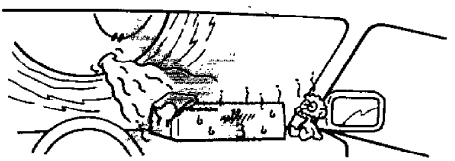
- Do not open enclosure, such as front panel, top or bottom cover.



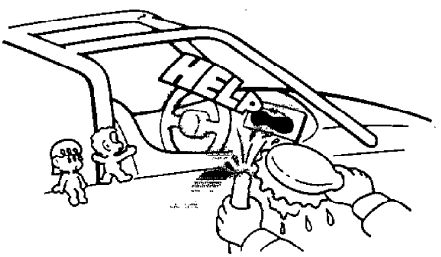
- Do not drop pieces of metal, needles, coins and other electrically conductive materials into the unit.



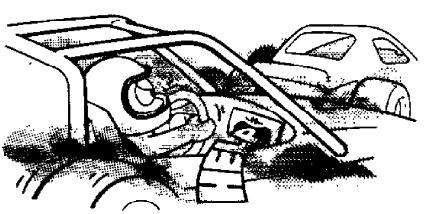
- Do not place the unit, where it will be exposed to direct sunlight or close to heating device.



- Do not dash water on the unit.

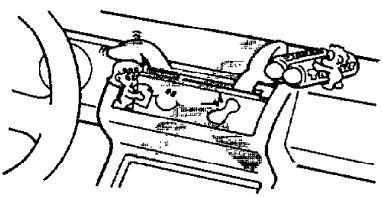


- Do not place the unit in areas of excessive dust, high humidity or on unstable surfaces.

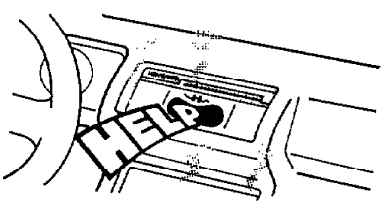


CLEANING

1. Turn the power off, before cleaning the unit.
2. Do not use any type of abrasive pad, thinner, benzine and any such kind of objects.
3. Wipe the front panel and other exterior surfaces of the unit with a soft dry cloth or a soft cloth lightly moistened with a neutral detergent.



- If an abnormal smell or smoke is detected, immediately turn the power off.



■ If you have difficulty in installing the set in your car, please contact your KENWOOD dealer.

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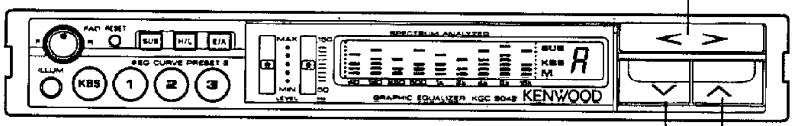
EQUALIZER CURVE ADJUSTMENT

1

Press the Band select switch to select the band to be adjusted.
Pressing the right segment of the switch shifts the band selection to the left, while pressing the left segment shifts it to the right.

Selected band (indicated by a blinking display which lasts for approx. 5 seconds)



■ TO INCREASE THE LEVEL OF THE SELECTED BAND

2

Press the Level Up switch while the level display is blinking. (The level display extends upward.)

■ TO DECREASE THE LEVEL OF THE SELECTED BAND

2

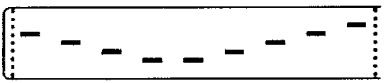
Press the Level Down switch while the level display is blinking. (The level display extends downward.)

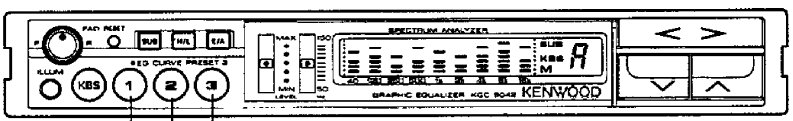
STORING EQUALIZER CURVES IN THE PRESET MEMORY

The KGC-9042 can store up to three equalizer curves in its preset memory.

1

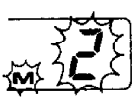
Set a desired equalizer curve.





2 MEMORY OPERATION

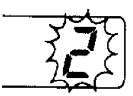
Press one of the equalizer curve Preset switches and hold it until the "M" indicator appears on the display (the switch must be held pressed for approx. 3 seconds).



One equalizer curve can be stored under each of the switches ①, ②, and ③.

3 RECALL OPERATION

Press the Preset switch under which the equalizer curve to be recalled is stored.



KBS (KENWOOD Built-in Sound) OPERATION

The KGC-9042 contains three types of fixed equalizer curves preset in memory by KENWOOD.

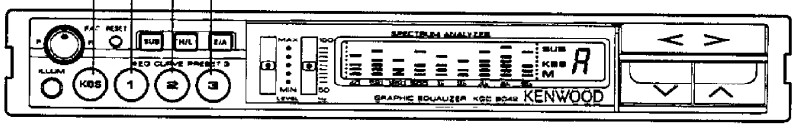
1

Press the KBS switch.
(The KBS indicator lights.)

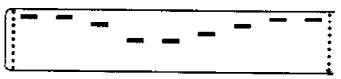
2

Press the desired equalizer curve Preset switch (see illustration below).

Switch
① L
② V
③ .... A

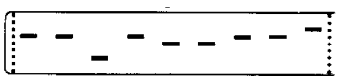


Type 1 (Loudness) .....Switch ①
The high and low frequency bands are enhanced to obtain the Loudness effect.



Type 2 (Vocal).....Switch ②
The middle frequeny band is enhanced for high-fidelity reproduction of vocals.

Type 3 (Acoustic flat)...Switch ③
This curve provides a flat frequency response, taking into consideration the sound field characteristics of the car interior environment.

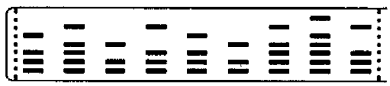


To cancel the KENWOOD Built-in Sound function:
Press the KBS switch.

SPECTRUM ANALYZER DISPLAY

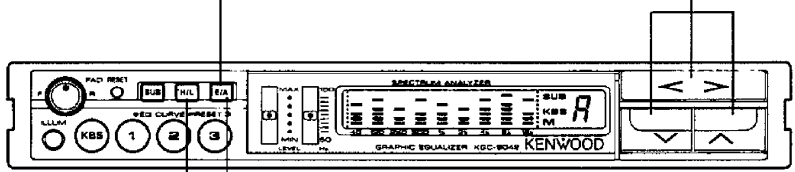
1

Press the Equalizer/Analyzer switch. (The spectrum analyzer display appears, in which the audio signal levels of various frequencies are displayed as they vary with time.)



2

When the Band select switch or Level Up/Down switch, is pressed, the graphic equalizer display appears temporarily to allow equalizer adjustment to be performed.



■ TO CHANGE THE SPECTRUM ANALYZER DISPLAY LEVEL:

Press the High/Low switch. (The spectrum analyzer level is switched between High and Low.)

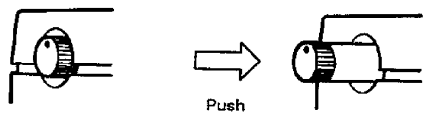
■ TO RETURN TO THE GRAPHIC EQUALIZER DISPLAY:

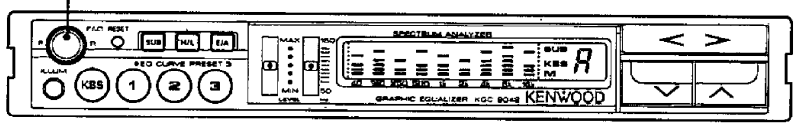
Press the Equalizer/Analyzer switch again. (The graphic equalizer display appears.)

FADER ADJUSTMENT

1

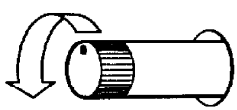
Push the Fader control knob with your finger and then release it so that it pops out.





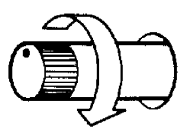
■ TO ENHANCE THE FRONT SPEAKER SOUND:

Turn the control knob counter-clockwise.



■ TO ENHANCE THE REAR SPEAKER SOUND:

Turn the control knob clockwise.

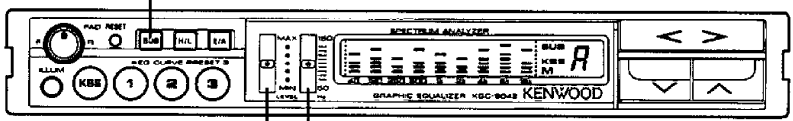


SUB-WOOFER ADJUSTMENT

The following adjustment is necessary only when sub-woofers are connected to the KGC-9042.

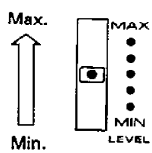
1

Press the Sub-woofer switch to ON.
(The SUB indicator lights.)
* The initial condition is the ON position.



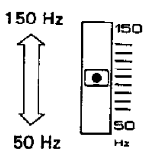
2

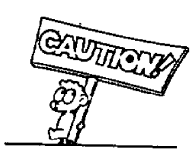
Adjust the level of the sound output from the sub-woofers with the level controller.



3

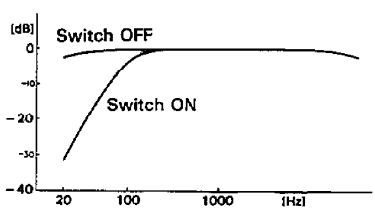
Adjust the sub-woofer cut-off frequency with the frequency controller.





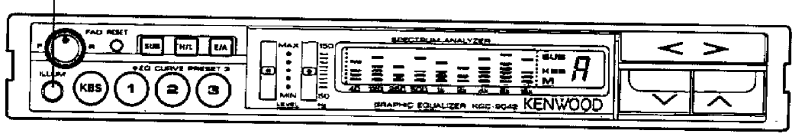
- If no sub-woofers are connected, set the Sub-woofer switch to the OFF position. If the switch is left in the ON position, the output sound may be weak in the low-frequency range.
- The Sub-woofer switch is in the ON position when the power is switched ON for the first time (initial condition).

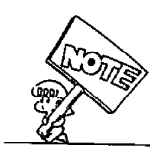
Front/rear output characteristic curve



ILLUMINATION SWITCH

The Illumination switch allows the illumination color of the unit to be alternated between green and orange.
(The initial condition is orange.)





- Keeping connected the Automatic illumination/Dimmer control supply lead of the Power connection cord ④, the illumination become dark synchronized with the car's light.
  Even during the power is OFF, turning ON the car's light control the illumination lights up.

CARE AND MAINTENANCE

- The power source of this unit is exclusively DC 12 V, negative ground.
- Do not place the graphic equalizer in a place where the graphic equalizer may be exposed to direct sunlight, heat or moisture. Be careful that metal objects and water do not enter the set.
- If you have difficulty in installing the set in your car, please contact your KENWOOD dealer.

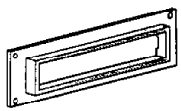
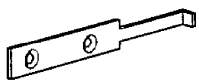
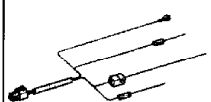
Cleaning

Clean with a dry silicone cloth or a soft cloth. The use of thinner, alcohol or other solvents may damage the surface finish.

- When the power is switched ON for the first time, or whenever the car battery is replaced, press the reset button with a pointed instrument such as a ball-point pen tip.

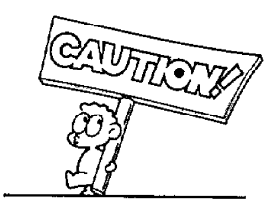
ACCESSORIES AND INSTALLATION

■ ACCESSORIES

No.	Part name	External View	Number of units	No.	Part name	External View	Number of units
①	Panel frame		1	⑤	Tapping screw (φ4×16)		4
②	Side bracket		2	⑥	Flat head screw (M4×6)		4
③	Bracket		2	⑦	Washer assembly screw (M4×8)		5
④	Power connection cord		1	⑧	Tapping screw (φ5×16)		4

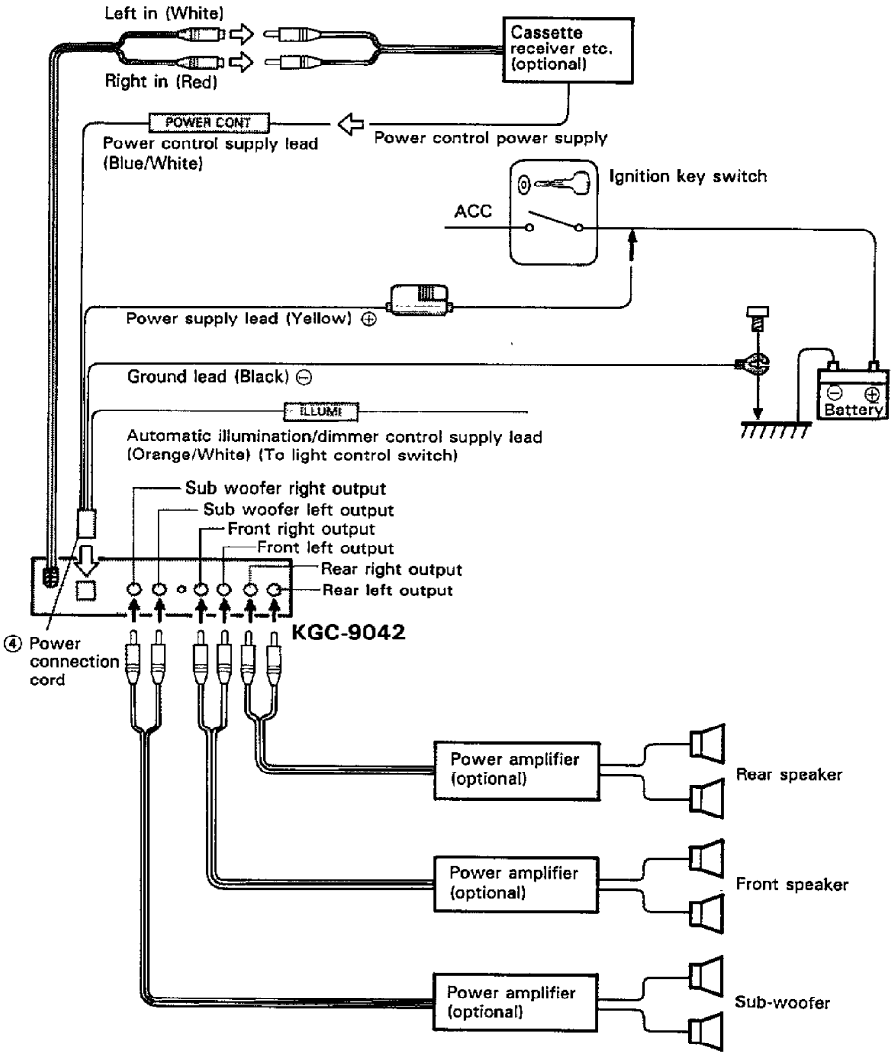
■ INSTALLATION

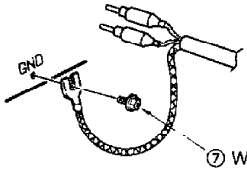
1. Before installation and wiring, remove the (−) terminal of the battery to prevent short-circuiting.
2. Connect the input and output cords of the system.
3. Connect the ground to the metal chassis of the car.
4. Connect the back-up power supply lead (yellow).
5. Install the set and after confirming the installation and wirings are correct, connect the (−) terminal of the battery.



- Do not position the equalizer's input cord and the speaker lead wires of the power amp too close to each other. If the wires are too close, unpleasant noise may be generated from the cassette deck or tuner.
- If a fuse is blown, first check that the associated wires are not short-circuited, then replace the fuse with a new one having the same capacity.

CONNECTION





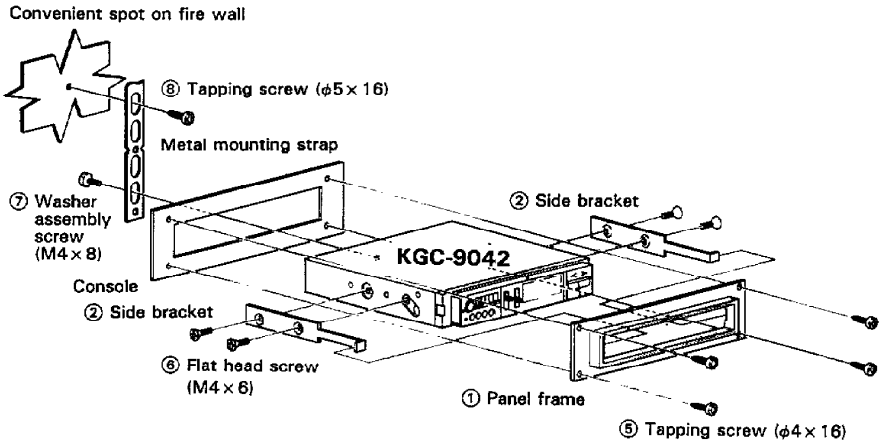
⑦ Washer assembly screw (M4 × 8)

- If the RCA extension cable (optional) is provided with a GND wire, then, fix it into the threaded hole for GND on the rear of the main unit.

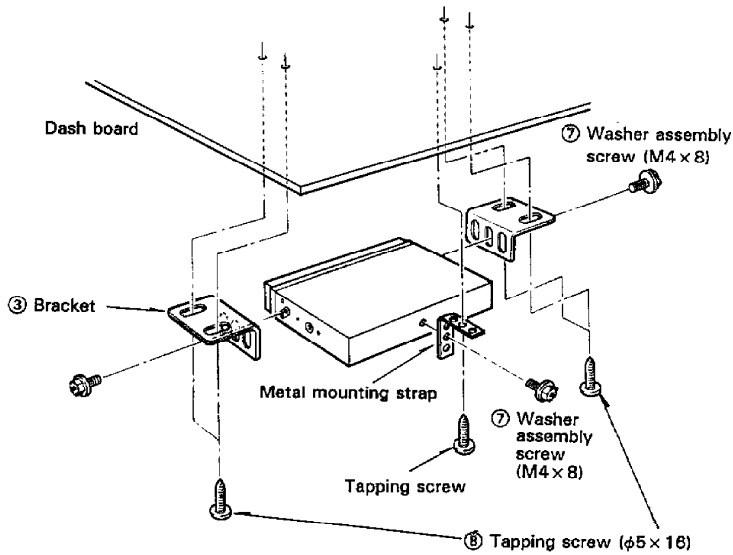
INSTALLATION

- When installing in the car, choose the best position with regard to overall safety of the system and ease of operation.
- As installation fixtures, use only the accessories supplied.

■ Installing the unit in the dash panel:


Convenient spot on fire wall
⑧ Tapping screw (φ5 × 16)
Metal mounting strap
⑦ Washer assembly screw (M4 × 8)
② Side bracket
KGC-9042
Console
② Side bracket
⑥ Flat head screw (M4 × 6)
① Panel frame
⑤ Tapping screw (φ4 × 16)

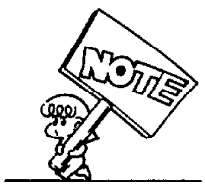
■ Installing the unit below the dash board:


Dash board
⑦ Washer assembly screw (M4 × 8)
③ Bracket
Metal mounting strap
⑦ Washer assembly screw (M4 × 8)
Tapping screw
⑧ Tapping screw (φ5 × 16)

TROUBLESHOOTING GUIDE

What often appears to be a malfunction is often due to user error in operation or connection. When trouble occurs with your unit, please check the following before calling for service.

Symptom	Possible cause	Remedy
Power cannot be switched ON.	The backup fuse or is blown. The fuse of the connected head unit is blown. The equalizer's power connector is not connected to the power supply.	After checking that no cords are short-circuited, replace the blown fuse with a new one of the specified capacity. Connect the power connector.
Sound is not heard from the front or rear speakers.	The Fader control knob is turned fully to Front or Rear.	Turn the Fader control knob to optimize the front/rear balance.
No display appears. The display appears but the switches do not function.	The microcomputer is not operating normally.	Press the Reset button.
The 16 kHz segment of the spectrum analyzer display does not appear.	With some sources, particularly with cassette tapes, the sound level of the 16 kHz signal is sometimes too low to be displayed on the spectrum analyzer.	There is no problem if it appears when a source such as a CD is played.
Sound is not output.	The speaker cord, system power, or pre-out connections are not secure. The pre-fader control of the head unit is set to the minimum position.	Connect cords properly according to the instructions in the instruction, manual. Set the fader of the head unit to the center position and check if sound is output.
Low frequencies are not heard.	The Sub-woofer switch is set to the ON position.	Set the Sub-woofer switch to the OFF position



To prevent interference between the frequency bands of the sub-woofers and main speakers, frequencies below 100 Hz output from the front, and rear speakers are cut off when the Sub-woofer switch is ON.
Therefore, when sub-woofers are not used, be sure to set the Sub-woofer switch to the OFF position.

SPECIFICATIONS

Specifications subject to change without notice.

Equalizer Section

Equalizer Center Frequency	40 Hz, 120 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 16 kHz
Equalization Range	−12 ~ +12 dB
Sub-woofer Cut-off Frequency	50 ~ 150 Hz (Variable)
Sub-woofer Output Gain	−∞ ~ +10 dB
Sub-woofer Cut-off Slope	12 dB/oct

Audio Section

Input Impedance	10 kΩ
Output Impedance	600 Ω
Signal to Noise Ratio	100 dB
T.H.D.	0.01 %
Frequency Response (−3 dB)	20 Hz ~ 50 kHz
Gain	0 dB

General

Operating Voltage	14.4 V (11 ~ 16 V)
Current Consumption (MAX)	0.4 A
Dimensions (W × H × D)	178 × 25 × 140 mm (7 × 1 × 5-1/2 inch)
Weight	0.8 kg (1.8 lb)

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